ional Application No PCT/EP2005/004330

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H01P1/15 H03H11/14 H03K17/687

H03H11/24

H03K17/041

H03K17/16

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

 $\begin{array}{ll} \text{Minimum documentation searched (classification system tollowed by classification symbols)} \\ IPC 7 & H03H & H03K \\ \end{array}$ 

Documentation searched other than minimum documentation to the extent that such documents are included. In the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUM	C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
X	US 5 073 717 A (STURZEBECHER ET AL) 17 December 1991 (1991-12-17) column 2, line 35 - line 41; figure 1 column 1, line 53 - line 55	1,3,11			
<b>X</b>	US 4 859 965 A (PAOLELLA ET AL) 22 August 1989 (1989-08-22) column 1, line 62 - line 65; figure 1 column 3, line 18 - line 21	1,3,11			
Α	columns 1,2	12-15			
X	US 5.623.233 A (HIGGINS ET AL) 22 April 1997 (1997-04-22) column 5, line 9 - line 15; figure 1	1,3,11			
Α	column 2, lines 35-60	12-15			

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents:  A document defining the general state of the art which is not considered to be of particular relevance  E earlier document but published on or after the International filling date  L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  O document referring to an oral disclosure, use, exhibition or other means  P document published prior to the international filing date but later than the priority date claimed	<ul> <li>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>*8* document member of the same patent tamily</li> </ul>
Date of the actual completion of the international search	Date of mailing of the international search report
2 November 2005	1 0. 11. 2005
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Flijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  Kurzbauer, W

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C.(Continua	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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X	US 5 162 657 A (STURZEBECHER ET AL) 10 November 1992 (1992-11-10) column 2, line 55 - column 3, line 26; figure 1	1,3,11
A	US 2004/036462 A1 (EVERS CHRISTIAN ET AL) 26 February 2004 (2004-02-26) cited in the application the whole document	1-11
A	EP 0 869 611 A (HEWLETT-PACKARD COMPANY) 7 October 1998 (1998-10-07) the whole document	1
A	US 5 313 138 A (DESMUR ET AL) 17 May 1994 (1994-05-17) column 4, line 32 - line 61; figure 2	1
A	US 5 086 281 A (PAOLELLA ET AL) 4 February 1992 (1992-02-04) the whole document	1,3,11
Α	US 3 662 289 A (JOSEPH F. DIENST) 9 May 1972 (1972-05-09) figure 4	1,3,11
А	US 5 347 235 A (HIGGINS ET AL) 13 September 1994 (1994-09-13) figure 1	1,3,11
А	PATENT ABSTRACTS OF JAPAN vol. 012, no. 277 (E-640), 30 July 1988 (1988-07-30) & JP 63 055978 A (YOKOGAWA ELECTRIC CORP), 10 March 1988 (1988-03-10) abstract	1
A	PATENT ABSTRACTS OF JAPAN vol. 016, no. 415 (E-1257), 2 September 1992 (1992-09-02) & JP 04 139877 A (NEC CORP), 13 May 1992 (1992-05-13) abstract	
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Interceptal Application No PCT/EP2005/004330

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
egory •	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	SASAKI H ET AL: "ANALYSIS OF GATE LAG IN GAAS METAL-SEMICONDUCTOR FIELD-EFFECT TRANSISTOR USING LIGHT ILLUMINATION" JAPANESE JOURNAL OF APPLIED PHYSICS, PUBLICATION OFFICE JAPANESE JOURNAL OF APPLIED PHYSICS. TOKYO, JP, vol. 34, no. 12A, PART 1, December 1995 (1995-12), pages 6346-6351, XP000628352 ISSN: 0021-4922 the whole document	1-12
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International application No.

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	Observations where tertain trains were round discarthable (Continuation of item 1 of mot speet)
This inte	mational search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
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. $\Box$	
<sup>2.</sup> []	Claims Nos.:  because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
	an extent that no meaningful international search can be carried out, specifically.
	•
3.	Claims Nos.:
	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Вох П	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Int	ernational Searching Authority found multiple inventions in this international application, as follows:
	see the Supplemental Sheet
·	
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remar	k on Protest  The additional search fees were accompanied by the applicant's protest.
1	No protest accompanied the payment of additional search fees.

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#### 1. Claims 1-11

microwave circuit with GaAs field effect transistors on a semiconductor substrate for switching high-frequency signals, the transistors being illuminated by a light source, the intensity and/or color of which can be modified in operation.

#### 2.Claims 12-15

calibration device and method of calibrating the luminous intensity/color of a light source that can be modified in operation for purposes of calibrating a mocrowave circuit.

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mformation on patent family members

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